CLAIMS

WHAT IS CLAIMED IS:

An abdominal exercise machine for exercising abdominal muscles, comprising
an upper member and a lower member, said upper member and said lower member
comprising generally extending members;

a semi-rigid member providing a range of bending force, said semi-rigid/member coupled to said upper member and said lower member;

whereby feedback is provided when a predetermined abdominal exercise is performed.

2. An abdominal exercise machine as set forth in claim 1, wherein/said generally extending members of said upper member separate by a range from 0-180 degrees;

said upper member further comprises an engagement member, and said semi-rigid member coupled to said lower member by a pivoting joint.

- 3. An abdominal exercise machine as set forth in claim 2, wherein said semi-rigid member securely coupled to said upper member; and said semi-rigid member securely coupled to said pivoting joint.
- 4. An abdominal exercise machine as set forth in claim 2, wherein said semi-rigid member detachably attachable to said upper member; and said semi-rigid member detachably attachable to said pivoting joint.

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- 5. An abdominal exercise machine as set forth in claim 1, wherein said semi-rigid member coupled to said upper member by upper attachment means, and said semi-rigid member coupled to said lower member by lower attachment means.
- 6. An abdominal exercise machine as set forth in claim 5, wherein said generally extending members of said upper member are curved; and said generally extending members of said lower member include padded rollers.
- 7. An abdominal exercise machine as set forth in claim 6, wherein said semi-rigid member securely coupled to said upper attachment means and said lower attachment means.
- 8. An abdominal exercise machine as set forth in claim 6, wherein said semi-rigid member detachably attachable to said upper attachment means and said lower attachment means.
- 9. An abdominal exercise machine as set forth in claim 5, wherein said generally extending members of said upper member comprise rotatable handgrips.
- 10. An abdominal exercise machine as set forth in claim 9, wherein said semi-rigid member securely coupled to said upper attachment means and said lower attachment means.

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- 11. An abdominal exercise machine as set forth in claim 9, wherein said semi-rigid member detachably attachable to said upper attachment means and said lower attachment means.
- 12. An abdominal exercise machine as set forth in claim 5, wherein said upper attachment means comprising a flex joint.
- 13. An abdominal exercise machine as set forth in claim 12, wherein said semi-rigid member securely coupled to said upper attachment means and said lower attachment means.
- An abdominal exercise machine as set forth in claim 12, wherein said semi-rigid member detachably attachable to said upper attachment means and said lower attachment means.
- An abdominal exercise machine as set forth in claim 5, wherein said lower attachment means comprising a pivot joint providing a pivot motion along the axis of said semi-rigid member.
- 16. An abdominal exercise machine as set forth in claim 15, wherein said semi-rigid member coupled to said pivot joint by a flex joint and a plurality of bolts.
- 17. An abdominal exercise machine as set forth in claim 15, wherein

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said semi-rigid member securely coupled to said upper attachment means and said lower attachment means.

- 18. An abdominal exercise machine as set forth in claim 15, wherein said semi-rigid member detachably attachable to said upper attachment means and said lower attachment means.
- 19. An abdominal exercise machine as set forth in claim 5, wherein said lower attachment means comprising a pivot joint providing a combination of a pivot motion along the axis of said semi-rigid member and a rotational pivoting motion.
- 20. An abdominal exercise machine as set forth in claim 19, wherein said semi-rigid member coupled to said pivot joint by a flex joint and a plurality of bolts.
- An abdominal exercise machine as set forth in claim 19, wherein said semi-rigid member securely coupled to said upper attachment means and said lower attachment means.
- 22. An abdominal exercise machine as set forth in claim 19, wherein said semi-rigid member detachably attachable to said upper attachment means and said lower attachment means.
- 23. An abdominal exercise machine as set forth in claim 5, wherein

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said lower attachment means comprising a ball joint having a ball joint assembly, a ball joint cover and an opening;

said semi-rigid member coupled to said ball joint via said opening of said ball joint assembly; and

said ball joint allowing for a side to side as well as a front to back motion of said semi-rigid member.

- 24. An abdominal exercise machine as set forth in claim 23, wherein said generally extending members of said upper member being substantially parallel to said lower member.
- 25. An abdominal exercise machine as set forth in claim 28, wherein said semi-rigid member securely attachable to said upper attachment means and said lower attachment means.
- 26. An abdominal exercise machine as set forth in claim 23, wherein said semi-rigid member detachably attachable to said upper attachment means and said lower attachment means
- An abdominal exercise machine for exercising abdominal muscles, comprising an upper member and a lower member, said upper member and said lower member comprising generally extending members;

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- a plurality of semi-rigid members providing a range of bending force, said plurality of semi-rigid members coupled to said upper member and said lower member;
 - whereby feedback is provided when a predetermined abdominal exercise is performed.
- 28. An abdominal exercise machine as set forth in claim 27, wherein said generally extending members of said upper member are curved.
- 29. An abdominal exercise machine as set forth in claim 27, wherein said semi-rigid member securely coupled to said upper attachment means and said lower attachment means.
- 30. An abdominal exercise machine as set forth in claim 27, wherein said semi-rigid member detachably attachable to said upper attachment means and said lower attachment means.
- 31. An abdominal exercise machine comprising,
 - a top member;
 - a lower member;
 - said top member and said lower member comprising generally extending members;
- a hinged-rigid member, said hinged-rigid/member coupled to said lower member and said top member;
 - an elastic member, said elastic member coupled to said hinged-rigid member; whereby feedback is provided when a predetermined abdominal exercise is performed.

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- 32. An abdominal exercise machine as set forth in claim 31, wherein said top member having length adjustment means; and said elastic member detachably attachable to said hinged-rigid member.
- An abdominal exercise machine for exercising abdominal muscles, comprising:
 means for engaging an upper body portion;
 means for engaging a lower body portion; and

semi-rigid means for flexibly resisting compression, said semi-rigid means coupling said upper body engaging means and said lower body engaging means, said semi-rigid means spanning abdominal muscles for exercise thereof;

whereby abdominal muscles are exercised when said semi-rigid means undergoes compression when said upper body portion is brought towards said lower body portion and feedback is provided during a predetermined abdominal exercise.

An abdominal exercise machine for exercising abdominal muscles, comprising:
means for engaging an upper body portion;
means for engaging a lower body portion; and

biased elastic hinged-rigid means for resiliently resisting compression, said biased hinged-rigid means coupling said upper body engaging means and said lower body engaging means, said biased hinged-rigid means spanning abdominal muscles for exercise thereof;

elastic means for biasing said hinged-rigid means, said elastic means coupled to said hinged-rigid means;

whereby abdominal muscles are exercised when said biased hinged-rigid means undergoes compression when said upper body portion is brought towards said lower body portion and feedback is provided during a predetermined abdominal exercise.